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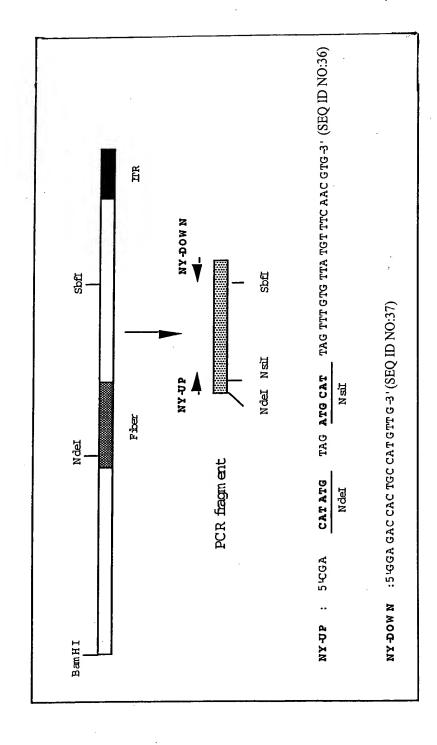


Figure 2



Figure 4: Sequence of Ad5/fib16 chimeric fiber

**ATG**AAGCGCGCAAGACCGTCTGAAGATACCTTCAACCCCGTGTATCCATATGAAGATGAAAGCAGCT CACAACACCCCTTTATAAACCCTGGTTTCATTTCCTCAAATGGTTTTGCACAAAGCCCAGATGGAGT TCTAACTCTTAAATGTGTTAATCCACTCACTACCGCCAGCGGACCCCTCCAACTTAAAGTTGGAAGC ATCGCTGGGAGATGGGTAACAAAGGATGATAAACTATGTTTATCGCTGGGAGATGGGTTAATA ACAAAAATGATGTACTATGTGCCAAACTAGGACATGGCCTTGTGTTTTGACTCTTCCAATGCTATCA CCATAGAAAACAACACCTTGTGGACAGGCGCAAAACCAAGCGCCAACTGTGTAATTAAAGAGGGAGA AGATTCCCCAGACTGTAAGCTCACTTTAGTTCTAGTGAAGAATGGAGGACTGATAAATGGATACATA ACATTAATGGGAGCCTCAGAATATACTAACACCTTGTTTAAAAACAATCAAGTTACAATCGATGTAA ACCTCGCATTTGATAATACTGGCCAAATTATTACTTACCTATCATCCCTTAAAAGTAACCTGAACTT TAAAGACAACCAAAACATGGCTACTGGAACCATAACCAGTGCCAAAGGCTTCATGCCCAGCACCACC GCCTATCCATTTATAACATACGCCACTGAGACCCTAAATGAAGATTACATTTATGGAGAGTGTTACT ACAAATCTACCAATGGAACTCTCTTTCCACTAAAAGTTACTGTCACACTAAACAGACGTATGTTAGC TTCTGGAATGGCCTATGCTATGAATTTTTCATGGTCTCTAAATGCAGAGGAAGCCCCGGAAACTACC GAAGTCACTCTCATTACCTCCCCCTTCTTTTTTTTTTTATATCAGAGAAGATGAC**TGA**ATGCATTAG (SEQ ID NO:32)

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## FIGURE 7A

Alignment Report of alignment DNA, using Clustal method with Weighted residue weight table. Wednesday, March 31, 1999 16:13

ATGGC-CAAACGAGCTCGGCTAAGCAGCTCCTTCAATCCGGTCTACCCCT Fiber 16 Genbank (SEQ ID NO:33) ATGAAGCGCGCAAGACCGTCTGAA-GATACCTTCAACCCCGTGTATCCATCAATCCAT Ad5/16 Fiber DNA (SEQ ID NO:38) ATGAAGATGAAAGCAGCTCACAACACCCCTTTATAAACCCTGGTTTCATT Fiber 16 Genbank ATGAAGATGAAAGCAGCTCACAACACCCCTTTATAAACCCTTGGTTTCATT Ad5/16 Fiber DNA 50 TCCTCAAATGGTTTTGCACAAAGCCCAGATGGAGTTCTAACTCTTAAATG Fiber 16 Genbank 100 TCCTCAAATGGTTTTGCACAAAGCCCAGATGGAGTTCTAACTCTTAAATG Ad5/16 Fiber DNA 100 TGTTAATCCACTCACTACCGCCAGCGGACCCCTCCAACTTAAAGTTGGAA Fiber 16 Genbank 150 TGTTAATCCACTCACTACCGCCAGCGGACCCCTCCAACTTAAAGTTGGAA Ad5/16 Fiber DNA 150 GCAGTCTTACAGTAGATACTATCGATGGGTCTTTGGAGGAAAATATAACT Fiber 16 Genbank 200 GCAGTCTTACAGTAGATACTATCGATGGGTCTTTGGAGGAAAATATAACT Ad5/16 Fiber DNA 200 GCCGCAGCGCCACTCACTAAAACTAACCACTCCATAGGTTTATTAATAGG Fiber 16 Genbank 250 GCCGAAGCGCCACTCACTAAAACTAACCACTCCATAGGTTTATTAATAGG Ad5/16 Fiber DNA 250 ATCTGGCTTGCAAACAAAGGATGATAAACTTTGTTTATCGCTGGGAGATG Fiber 16 Genbank 300 ATCTGGCTTGCAAACAAAGGATGATAAACTTTGTTTATCGCTGGGAGATG Ad5/16 Fiber DNA 300 GGTTGGTAACAAAGGATAAACTATGTTTATCGCTGGGAGATGGGTTA Fiber 16 Genbank 350 GGTTGGTAACAAAGGATGATAAACTATGTTTATCGCTGGGAGATGGGTTA Ad5/16 Fiber INA 350 ATAACAAAAATGATGTACTATGTGCCAAACTAGGACATGGCCTTGTGTT Fiber 16 Genbank 400 ATAACAAAAATGATGTACTATGTGCCAAACTAGGACATGGCCTTGTGTT Ad5/16 Fiber DNA 40G TGACTCTTCCAATGCTATCACCATAGAAAACAACATCTTGTGGACAGGCG Fiber 16 Genbank 450 TGACTCTTCCAATGCTATCACCATAGAAAACAACATTGTGGACAGGCG Ad5/16 Fiber DNA 450 CAAAACCAAGCGCCAACTGTGTAATTAAAGAGGGAGAAGATTCCCCAGAC Fiber 16 Genbank 500 CAAAACCAAGCGCCAACTGTGTAATTAAAGAGGGAGAAGATTCCCCAGAC Ad5/16 Fiber DNA 500 TGTAAGCTCACTTTAGTTCTAGTGAAGAATGGAGGACTGATAAATGGATA Fiber 16 Genbank 550 TGTAAGCTCACTTTAGTTCTAGTGAAGAATGGAGGACTGATAAATGGATA Ad5/16 Fiber INVA 550 CATAACATTAATGGGAGCCTCAGAATATACTAACATCTTGTTTAAAAACA Fiber 16 Genbank 600 CATAACATTAATGGGAGCCTCAGAATATACTAACACCTTGTTTAAAAACA Ad5/16 Fiber INA ATCAAGTTACAATCGATGTAAACCTCGCATTTGATAATACTGGCCAAATT Fiber 16 Genbank 650 ATCAAGTTACAATCGATGTAAACCTCGCATTTGATAATACTGGCCAAATT Ad5/16 Fiber DNA 650 ATTACTTACCTATCATCCCTTAAAAGTAACCTGAACTTTAAAAGACAACCA Fiber 16 Genbank 700 ATTACTTACCTATCATCCCTTAAAAGTAACCTGAACTTTAAAAGACAACCA Ad5/16 Fiber DNA 700 AAACATGGCTACTGGAACCATAACCAGTGCCAAAGGCTTCATGCCCAGCA Fiber 16 Genbank 750 AAACATGGCTACTGGAACCATAACCAGTGCCAAAGGCTTCATGCCCAGCA Ad5/16 Fiber DNA 750 CCACCGCCTATCCATTTATAACATACGCCACTGAGACCCTAAATGAAGAT Fiber 16 Genbank 800 CCACCGCCTATCCATTTATAACATACGCCACTGAGACCCTAAATGAAGAT Ad5/16 Fiber DNA 800 TACATTTATGGAGAGTGTTACTACAAATCTACCAATGGAACTCTTTCC Fiber 16 Genbank 850 TACATTTATGGAGAGTGTTACTACAAATCTACCAATGGAACTCTCTTTCC Ad5/16 Fiber DNA 850 ACTAAAAGTTACTGTCACACTAAACAGACGTATGTTAGCTTCTGGAATGG Fiber 16 Genbank 900 ACTAAAAGTTACTGTCACACTAAACAGACGTATGTTAGCTTCTGGAATGG Ad5/16 Fiber DNA 900 CCTATGCTATGAATTTTTCATGGTCTCTAAATGCAGAGGAAGCCCCGGAA Fiber 16 Genbank 950 CCTATGCTATGAATTTTTCATGGTCTCTAAATGCAGAGGAAGCCCCGGAA Ad5/16 Fiber DNA . 950 1000 ACTACCGAAGTCACTCTCATTACCTCCCCCTTTTTTTTTCTTATATCAG Fiber 16 Genbank 1000 ACTACCGAAGTCACTCTCATTACCTCCCCCTTCTTTTTTCTTATATCAG Ad5/16 Fiber DNA Fiber 16 Genbank 1050 AGAAGATGACTGA 1050 AGAAGATGACTGAATGCATTAGTTTGTGTTTTCAACGTGTTTATTT Ad5/16 Fiber DNA Fiber 16 Genbank 1062 Ad5/16 Fiber DNA 1100 TCAATTG

Decoration 'Decoration #1': Box residues that differ from Fiber 16 Genbank.



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FIGURE 7B

Alignment Report of alignment prot, using Clustal method with PAM250 residue weight table. Wednesday, March 31, 1999 16:19

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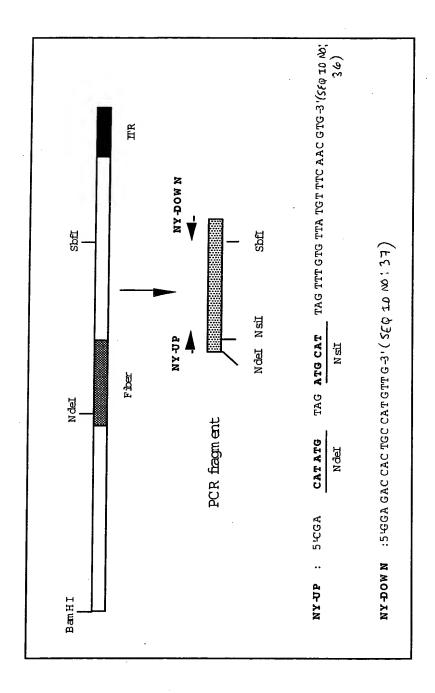
Decoration 'Decoration #1': Box residues that differ from genbank Fiber 16 .

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Figure 2



## RECTIVED

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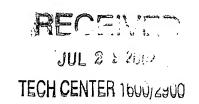
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Figure 4: Sequence of Ad5/fib16 chimeric fiber

**ATG**AAGCGCGCAAGACCGTCTGAAGATACCTTCAACCCCGTGTATCCATATGAAGATGAAAGCAGCT CACAACACCCCTTTATAAACCCTGGTTTCATTTCCTCAAATGGTTTTGCACAAAGCCCAGATGGAGT TCTAACTCTTAAATGTGTTAATCCACTCACTACCGCCAGCGGACCCCTCCAACTTAAAGTTGGAAGC ATCGCTGGGAGATGGTTAACAAAGGATGATAAACTATGTTTATCGCTGGGAGATGGGTTAATA ACAAAAATGATGTACTATGTGCCAAACTAGGACATGGCCTTGTGTTTGACTCTTCCAATGCTATCA CCATAGAAAACAACACCTTGTGGACAGGCGCAAAACCAAGCGCCAACTGTGTAATTAAAGAGGGAGA AGATTCCCCAGACTGTAAGCTCACTTTAGTTCTAGTGAAGAATGGAGGACTGATAAATGGATACATA ACATTAATGGGAGCCTCAGAATATACTAACACCTTGTTTAAAAAACAATCAAGTTACAATCGATGTAA ACCTCGCATTTGATAATACTGGCCAAATTATTACTTACCTATCATCCCTTAAAAGTAACCTGAACTT TAAAGACAACCAAAACATGGCTACTGGAACCATAACCAGTGCCAAAGGCTTCATGCCCAGCACCACC GCCTATCCATTTATAACATACGCCACTGAGACCCTAAATGAAGATTACATTTATGGAGAGTGTTACT ACAAATCTACCAATGGAACTCTCTTTCCACTAAAAGTTACTGTCACACTAAACAGACGTATGTTAGC TTCTGGAATGGCCTATGCTATGAATTTTTCATGGTCTCTAAATGCAGAGGAAGCCCCGGAAACTACC GAAGTCACTCTCATTACCTCCCCCTTCTTTTTTTTTTTATATCAGAGAAGATGACTGAATGCATTAG

(SEQ 10 NO; 32)





Alignment Report of alignment.DNA, using Clustal method with Weighted residue weight table. Wednesday, March 31, 1999 16:13

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ATGGC-CAAACGAGCTCGGCTAAGCAGCTCCTTCAATCCGGTCTACCCCT Fiber 16 Genbank (SEW 10 103) 1 ATGAAGCGCGCAAGACCGTCTGAA-GATACCTTCAACCCCGTGTATCCAT Ad5/16 Fiber DNA (SEG TO NO. ATGAAGATGAAAGCAGCTCACAAACACCCCTTTATAAACCCTTGGTTTCATT Fiber 16 Genbank 50 ATGAAGATGAAAGCAGCTCACAACACCCCTTTATAAACCCCTGGTTTCATT Ad5/16 Fiber DNA 50 TCCTCAAATGGTTTTGCACAAAGCCCAGATGGAGTTCTAACTCTTAAATG Fiber 16 Genbank 100 TCCTCAAATGGTTTTGCACAAAGCCCAGATGGAGTTCTAACTCTTAAATG Ad5/16 Fiber DNA 100 TGTTAATCCACTCACCGCCAGCGGACCCCTCCAACTTAAAGTTGGAA Fiber 16 Genbank TGTTAATCCACTCACTACCGCCAGCGGACCCCTCCAACTTAAAGTTGGAA Ad5/16 Fiber DNA 150 200 GCAGTCTTACAGTAGATACTATCGATGGGTCTTTGGAGGAAAATATAACT Ad5/16 Fiber DNA GCCGCAGCGCACTCACTAAAACTAACCACTCCATAGGTTTAATAAGG Fiber 16 Genbank 250 GCCGLAGCGCCACTCACTAAAACTAACCACTCCATAGGTTTAATAAGG Ad5/16 Fiber DNA 250 ATCTGGCTTGCAAACAAAGGATGATAAACTTTGTTTATCGCTGGGAGATG Fiber 16 Genbank 300 ATCTGGCTTGCAAACAAAGGATGATAAACTTTGTTTATCGCTGGGAGATG Ad5/16 Fiber DNA 300 GGTTGGTAACAAAGGATGATAAACTATGTTTATCGCTGGGAGATGGGTTA Fiber 16 Genbank 350 GGTTGGTAACAAAGGATGATAAACTATGTTTATCGCTGGGAGATGGGTTA Ad5/16 Fiber DNA 350 ATAACAAAAATGATGTACTATGTGCCAAACTAGGACATGGCCTTGTGTT Fiber 16 Genbank 400 ATAACAAAAATGATGTACTATGTGCCAAACTAGGACATGGCCTTGTGTT Ad5/16 Fiber DNA 400 TGACTCTTCCAATGCTATCACCATAGAAAACAACATTGTGGACAGGCG Fiber 16 Genbank 450 TGACTCTTCCAATGCTATCACCATAGAAAACAACATTGTGGACAGGCG Ad5/16 Fiber DNA CAAAACCAAGCGCCAACTGTGTAATTAAAGAGAGAAAAATTCCCCAAGAC Fiber 16 Genbank 500 CAAAACCAAGCGCCAACTGTGTAATTAAAGAGGGAAAATTCCCCCAGAC Ad5/16 Fiber DNA 500 550 TGTAAGCTCACTTTAGTTCTAGTGAAGAATGGACTGATAAATGGATA Fiber 16 Genbank TGTAAGCTCACTTTAGTTCTAGTGAAGAATGGAGGACTGATAAATGGATA Ad5/16 Fiber DNA 550 CATAACATTAATGGGAGCCTCAGAATATACTAACACCTTGTTTAAAAAACA Fiber 16 Genbank 600 CATAACATTAATGGGAGCCTCAGAATATACTAACACCTTGTTTAAAAAACA Ad5/16 Fiber DNA 600 ATCAAGTTACAATCGATGTAAACCTCGCATTTGATAATCTGGCCAAATT Fiber 16 Genbank 650 ATCAAGTTACAATCGATGTAAACCTCGCATTTGATAATACTGGCCAAATT Ad5/16 Fiber DNA 650 ATTACTTACCTATCATCCCTTAAAAGTAACCTGAACTTTAAAAGACAACCA Fiber 16 Genbenk 700 ATTACTTACCTATCATCCCTTAAAAGTAACCTGAACTTTAAAAGACAACCA Ad5/16 Fiber DNA 700 AAACATGGCTACTGGAACCATAACCAGTGCCAAAGGCTTCATGCCCAGCA Fiber 16 Genbank 750 AAACATGGCTACTGGAACCATAACCAGTGCCAAAGGCTTCATGCCCAGCA Ad5/16 Fiber DNA 750 CCACCGCCTATCCATTTATAACATACGCCACTGAGACCCTAAATGAAGAT Fiber 16 Genbank 800 CCACCGCCTATCCATTTATAACATACGCCACTGAGACCCTAAATGAAGAT Ad5/16 Fiber DNA 800 TACATTTATGGAGAGTGTTACTACAAATCTACCAATGGAACTCTCTTTCC Fiber 16 Genbank TACATTTATGGAGAGTGTTACTACAAATCTACCAATGGAACTCTCTTTCC Ad5/16 Fiber DNA 850 ACTAAAGTTACTGTCACACTAAACAGACGTATGTTAGCTTCTGGAATGG Fiber 16 Genbank 900 A C T A A A G T T A C T G T C A C A C T A A A C A G A C G T A T G T T A G C T T C T G G A A T G G Ad5/16 Fiber DNA CCTATGCTATGAATTTTTCATGGTCTCTAAATGCAGAAGCCCCCGGAA Fiber 16 Genbank 950 CCTATGCTATGAATTTTTCATGGTCTCTAAATGCAGAGGAAGCCCCGGAA Ad5/16 Fiber DNA 950 1000 ACTACCGAAGTCACTCTCATTACCTCCCCCTTTTTTTTTCTTATATCAG Ad5/16 Fiber DNA Fiber 16 Genbank 1050 AGAAGATGACTGA 1050 AGAAGATGACTGAATGCATTAGTTTGTGTTATTCAACGTGTTTATTT Ad5/16 Fiber DNA Fiber 16 Genbank 1062 1100 TCAATTG Ad5/16 Fiber DNA

Decoration 'Decoration #1': Box residues that differ from Fiber 16 Genbank.





## FIGURE 7B

Alignment Report of alignment.prot, using Clustal method with PAM250 residue weight table. Wednesday, March 31, 1999 16:19

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Decoration 'Decoration #1': Box residues that differ from genbank Fiber 16.

